The listing of claims will replace all prior versions, and listings, of claims in the

application:

Listing of Claims:

1. (Currently Amended) A vacuum pump comprising a first pumping section, a first

pump inlet through which fluid can enter the pump and pass through the first pumping

section towards a pump outlet, second and third pumping sections, a second pump inlet

through which fluid can enter the pump, the second and third pumping sections being

arranged such that fluid entering the pump through the second inlet is separated into a

first stream passing through the second pumping section towards the pump outlet and a

second stream passing through the third pumping section away from the pump outlet,

means for conveying fluid passing through the third pumping section towards the outlet,

and at least one additional pumping section downstream from the first, second and third

pumping sections for receiving fluid therefrom and outputting fluid towards the

outlet[[.]],

wherein the second and third pumping sections are located between the first

pumping section and said at least one additional pumping section.

2. (Previously Presented) The pump according to claim 1 wherein the conveying

means is arranged to convey fluid passing through the third pumping section to a location

intermediate the second pumping section and said at least one additional pumping

section.

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3. (Cancelled)

4. (Previously Presented) The pump according to claim 3 wherein the conveying

means is arranged to convey fluid passing through the first pumping section and fluid

passing through the third pumping section to a location intermediate the second pumping

section and said at least one additional pumping section.

5. (Previously Presented) The pump according to claim 3 wherein the conveying

means comprises a first conduit for conveying fluid passing through the first pumping

section to a position intermediate the second and third pumping sections, and a second

conduit for conveying fluid passing through the third pumping section to a location

intermediate the second pumping section and said at least one additional pumping

section.

6. (Previously Presented) The pump according to claim 5 comprising baffle means

for directing fluid passing through the first pumping section to the first conduit, and for

directing fluid passing through the third pumping section to the second conduit.

7. (Previously Presented) The pump according to claim 6 wherein each of the

pumping sections comprises a dry pumping section.

8. (Previously Presented) The pump according to claim 7 wherein said at least one

additional pumping section comprises at least one molecular drag stage.

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9. (Previously Presented) The pump according to claim 8 wherein each of the first, second and third pumping sections comprises at least one turbo-molecular stage.

10. (Previously Presented) The pump according to claim 9 wherein each of the first, second and third pumping sections comprises at least three turbo-molecular stages.

11. (Currently Amended) The pump according to claim 10 1 comprising a drive shaft having located thereon at least one rotor element for each of the pumping sections.

12. (Previously Presented) The pump according to claim 11 wherein at least some of the rotor elements for at least the first, second and third pumping stages are integral with an impeller mounted on the drive shaft.

13. (Previously Presented) The pump according to claim 12 wherein at least one of the rotor elements of the additional pumping section comprises a cylinder mounted on the impeller.

14. (Previously Presented) The pump according to claim 13 wherein the cylinder is mounted on a disc integral with the impeller.

15. (Previously Presented) A differentially pumped vacuum system comprising two chambers and a pump according to claim 14 for evacuating each of the chambers.

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16. (Cancelled)

17. (Currently Amended) The pump according to claim 16 1 wherein the conveying

means is arranged to convey fluid passing through the first pumping section and fluid

passing through the third pumping section to a location intermediate the second pumping

section and said at least one additional pumping section.

18. (Currently Amended) The pump according to claim 16 1 wherein the conveying

means comprises a first conduit for conveying fluid passing through the first pumping

section to a position intermediate the second and third pumping sections, and a second

conduit for conveying fluid passing through the third pumping section to a location

intermediate the second pumping section and said at least one additional pumping

section.

19. (Previously Presented) The pump according to claim 18 comprising baffle means

for directing fluid passing through the first pumping section to the first conduit, and for

directing fluid passing through the third pumping section to the second conduit.

20. (Previously Presented) The pump according to claim 19 wherein each of the

pumping sections comprises a dry pumping section.

21. (Previously Presented) The pump according to claim 20 wherein said at least one

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additional pumping section comprises at least one molecular drag stage.

22. (Previously Presented) The pump according to claim 21 wherein each of the first, second and third pumping sections comprises at least one turbo-molecular stage.

23. (Previously Presented) The pump according to claim 22 wherein each of the first, second and third pumping sections comprises at least three turbo-molecular stages.

24. (Previously Presented) The pump according to claim 23 comprising a drive shaft having located thereon at least one rotor element for each of the pumping sections.

25. (Currently Amended) The pump according to claim 24 17 wherein at least some of the rotor elements for at least the first, second and third pumping stages are integral with an impeller mounted on the drive shaft.

26. (Previously Presented) The pump according to claim 25 wherein at least one of the rotor elements of the additional pumping section comprises a cylinder mounted on the impeller.

27. (Previously Presented) The pump according to claim 26 wherein the cylinder is mounted on a disc integral with the impeller.

28. (Previously Presented) The pump according to claim 1 wherein each of the

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pumping sections comprises a dry pumping section.

29. (Previously Presented) The pump according to claim 1 wherein said at least one additional pumping section comprises at least one molecular drag stage.

30. (Previously Presented) The pump according to claim 1 wherein each of the first, second and third pumping sections comprises at least one turbo-molecular stage.

31. (Previously Presented) The pump according to claim 30 wherein each of the first, second and third pumping sections comprises at least three turbo-molecular stages.

32. (Previously Presented) The pump according to claim 31 comprising a drive shaft having located thereon at least one rotor element for each of the pumping sections.

33. (Cancelled)

34. (Cancelled)

35. (Cancelled)

36. (Previously Presented) A differentially pumped vacuum system comprising two chambers and further comprising a pump according to claim 1 for evacuating each of the chambers.